

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P510006

Luminaire Tested: **VERD-M-CA3-180-760-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-180-760-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 1120mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23753 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

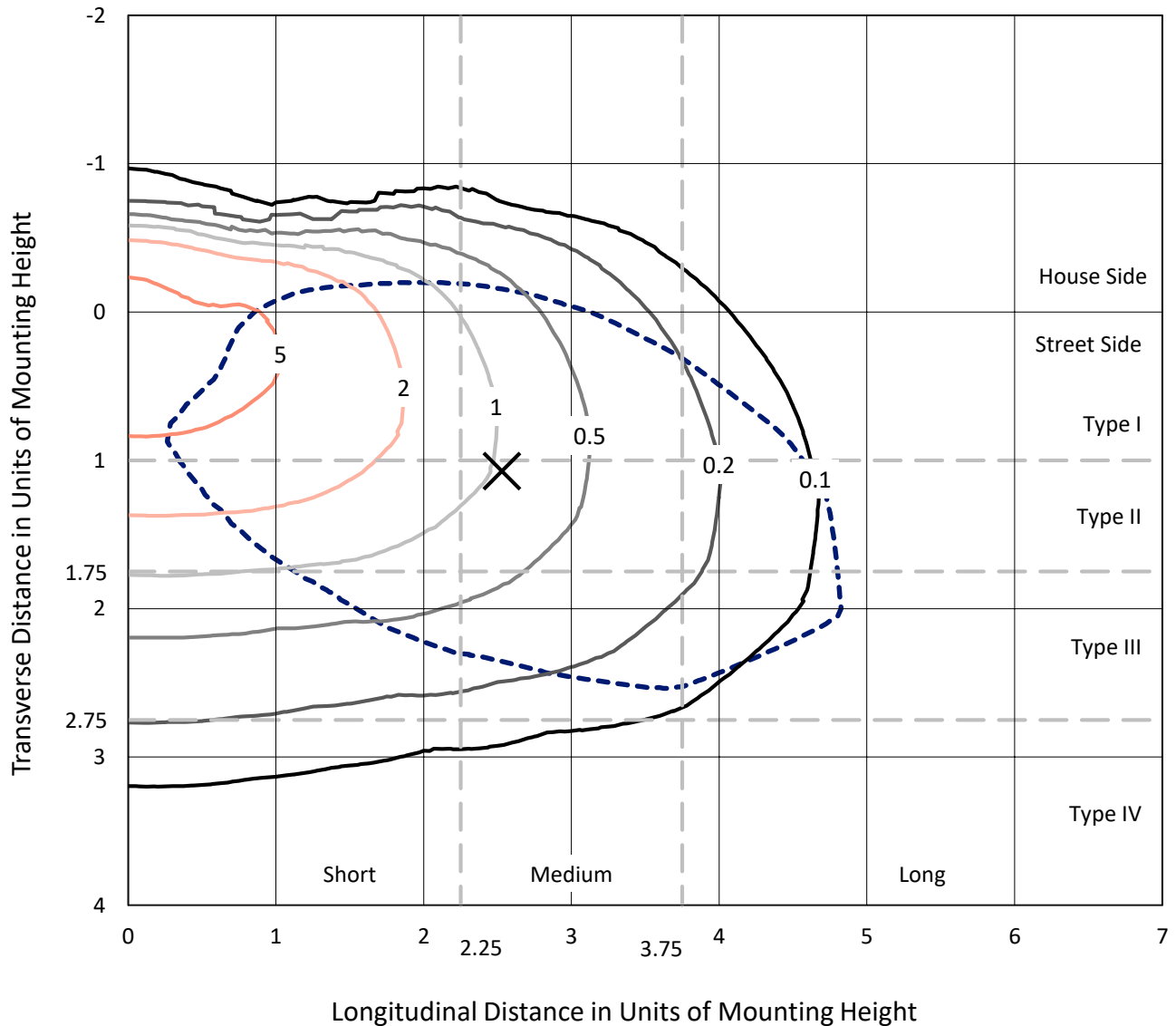
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

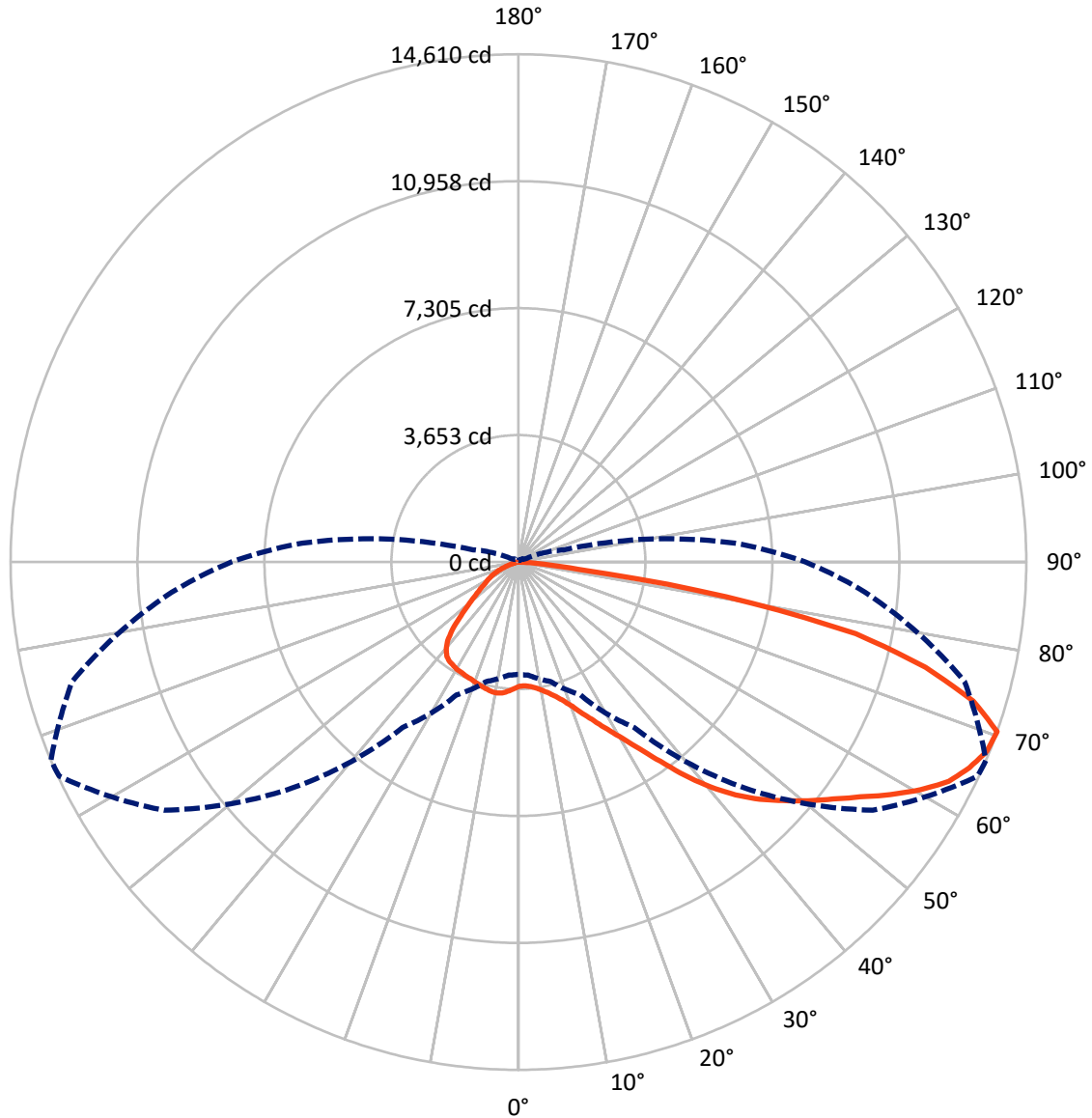
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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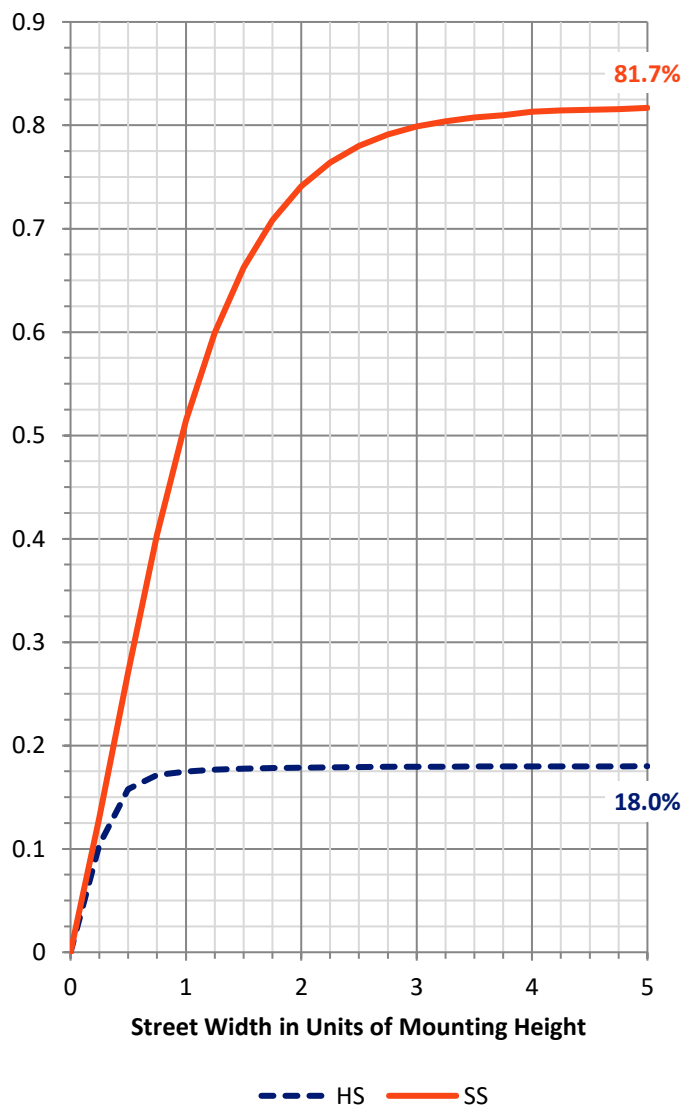
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4328.0	0.0	4328.0
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	19425.0	0.0	19425.0
	% Fixture	81.8	0.0	81.8
Total	Lumens	23753.0	0.0	23753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.0	1.5
10°-20°	1110.6	4.7
20°-30°	1926.9	8.1
30°-40°	2861.9	12.0
40°-50°	3926.3	16.5
50°-60°	4821.7	20.3
60°-70°	5169.4	21.8
70°-80°	3281.6	13.8
80°-90°	298.6	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	23753.0	100.0
0°-180°	23753.0	100.0

Coefficient of Utilization



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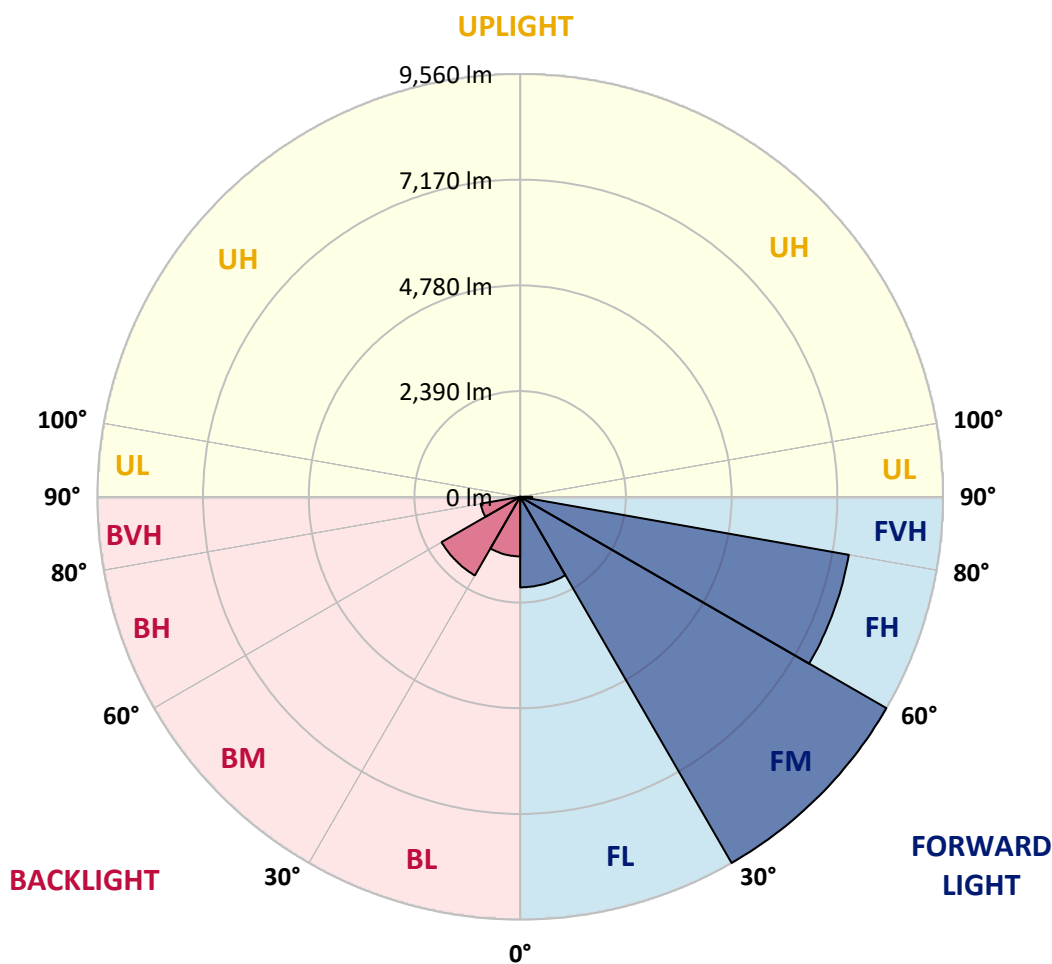
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2046.5	8.6			
FM (30°-60°)	9560.3	40.2			
FH (60°-80°)	7545.8	31.8			G4/12000
FVH (80°-90°)	272.4	1.1			G3/500
BL (0°-30°)	1346.9	5.7	B3/2500		
BM (30°-60°)	2049.5	8.6	B2/2500		
BH (60°-80°)	905.3	3.8	B2/1000		G2/1000
BVH (80°-90°)	26.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3573.0	3573.0	3573.0	3573.0	3573.0	3573.0	3573.0	3573.0	3573.0	3573.0	3573.0
2.5°	3540.8	3574.1	3554.6	3552.3	3575.3	3553.4	3568.4	3564.9	3562.6	3566.1	3590.2
5°	3633.9	3673.0	3646.5	3638.5	3651.1	3612.1	3608.6	3600.6	3598.3	3599.4	3633.9
7.5°	3763.8	3809.7	3799.4	3778.7	3771.8	3707.4	3696.0	3667.2	3658.0	3660.3	3694.8
10°	3968.3	4014.3	3993.6	3947.6	3918.9	3845.4	3804.0	3767.2	3748.8	3751.1	3787.9
12.5°	4230.4	4274.0	4239.5	4155.6	4139.6	4021.2	3956.8	3878.7	3866.0	3847.7	3886.7
15°	4477.4	4515.4	4499.3	4421.1	4377.5	4237.2	4118.9	4022.3	4010.8	3993.6	3992.5
17.5°	4751.0	4788.9	4759.0	4701.5	4644.1	4477.4	4349.9	4225.8	4195.9	4180.9	4126.9
20°	5042.9	5102.6	5096.9	5049.8	4980.8	4785.4	4605.0	4464.8	4432.6	4405.0	4291.3
22.5°	5344.0	5422.1	5404.9	5379.6	5350.9	5131.4	4921.0	4759.0	4734.9	4676.3	4497.0
25°	5677.2	5731.3	5718.6	5731.3	5711.7	5517.5	5287.7	5090.0	5057.8	5002.6	4728.0
27.5°	6000.2	6056.5	6078.3	6051.9	6064.5	5925.5	5653.1	5476.1	5445.1	5344.0	5006.1
30°	6292.1	6362.2	6393.2	6404.7	6447.2	6303.6	6102.5	5887.6	5877.2	5773.8	5372.7
32.5°	6525.4	6603.5	6679.4	6728.8	6796.6	6733.4	6533.4	6403.6	6404.7	6311.6	5923.2
35°	6694.3	6784.0	6894.3	7025.3	7167.8	7141.4	7023.0	7025.3	7043.7	7074.7	6625.4
37.5°	6881.6	6954.0	7083.9	7266.6	7483.8	7539.0	7522.9	7705.7	7795.3	7850.5	7242.5
40°	6993.1	7066.7	7228.7	7474.7	7790.7	7922.9	8071.1	8391.7	8509.0	8451.5	7770.0
42.5°	6870.2	6935.7	7217.2	7642.4	8042.4	8342.3	8607.8	9076.7	9161.7	8974.4	8214.8
45°	6710.4	6795.5	7092.0	7688.4	8265.3	8753.8	9166.3	9673.1	9736.4	9470.9	8607.8
47.5°	6579.4	6654.1	7000.0	7639.0	8471.0	9175.5	9657.1	10236.3	10252.4	9924.8	9014.6
50°	6411.6	6502.4	6863.3	7578.1	8595.2	9549.0	10106.4	10761.5	10797.1	10394.9	9359.4
52.5°	6235.8	6324.3	6697.8	7478.1	8684.8	9859.3	10573.0	11320.0	11323.5	10892.5	9727.2
55°	5976.0	6070.3	6484.0	7333.3	8712.4	10065.0	11041.9	11890.0	11925.7	11397.0	10060.4
57.5°	5701.4	5781.8	6226.6	7108.0	8610.1	10259.3	11523.4	12523.3	12620.9	11965.9	10346.6
60°	5337.1	5417.5	5887.6	6812.7	8392.9	10477.6	12075.1	13286.4	13296.7	12426.7	10554.6
62.5°	4945.2	5015.3	5447.4	6349.5	8056.2	10561.5	12548.5	13896.6	13895.5	12837.0	10658.0
65°	4479.7	4508.5	4948.6	5780.7	7533.3	10438.5	12757.7	14298.8	14259.8	13132.4	10623.6
67.5°	3928.1	3959.1	4292.4	5073.9	6774.8	9958.2	12664.6	14493.1	14532.1	13395.5	10474.2
70°	3229.4	3266.1	3556.9	4216.6	5808.3	9191.6	12446.3	14577.0	14610.3	13289.8	10013.3
72.5°	2383.5	2432.9	2611.1	3138.6	4408.5	7722.9	11434.9	13658.7	13677.1	12407.2	9053.7
75°	1480.2	1571.0	1738.8	2085.9	2860.5	5416.4	9774.3	12210.7	12095.7	11067.2	7491.9
77.5°	591.9	606.8	690.7	976.9	1395.2	2820.2	7085.1	9706.5	9926.0	8854.9	5358.9
80°	344.8	342.5	362.0	455.1	598.8	964.2	2755.9	5445.1	6069.1	4863.6	2411.1
82.5°	278.1	267.8	267.8	291.9	287.3	405.7	903.3	1590.5	1744.5	1548.0	686.1
85°	146.0	142.5	116.1	143.7	143.7	202.3	347.1	450.5	475.8	414.9	257.4
87.5°	36.8	36.8	36.8	44.8	35.6	42.5	58.6	71.3	73.6	59.8	37.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3573.0	3573.0	3573.0	3573.0	3573.0	3573.0	3573.0	3573.0	3573.0	3573.0	3573.0
2.5°	3599.4	3609.8	3650.0	3644.2	3651.1	3651.1	3662.6	3675.3	3713.2	3691.4	3682.2
5°	3640.8	3661.5	3712.0	3730.4	3758.0	3761.5	3784.4	3792.5	3833.9	3810.9	3810.9
7.5°	3720.1	3744.2	3791.3	3798.2	3810.9	3789.0	3794.8	3769.5	3797.1	3769.5	3770.7
10°	3809.7	3825.8	3858.0	3812.0	3792.5	3740.8	3729.3	3667.2	3689.1	3653.4	3644.2
12.5°	3895.9	3890.2	3866.0	3784.4	3730.4	3645.4	3609.8	3525.9	3521.3	3474.2	3465.0
15°	3977.5	3937.3	3859.1	3732.7	3640.8	3522.4	3437.4	3345.4	3313.3	3259.2	3254.6
17.5°	4077.5	4008.5	3869.5	3683.3	3532.8	3360.4	3239.7	3136.3	3069.6	3020.2	3019.1
20°	4199.3	4093.6	3874.1	3627.0	3421.3	3200.6	3031.7	2900.7	2805.3	2743.2	2742.1
22.5°	4352.2	4208.5	3916.6	3562.6	3278.8	3007.6	2797.2	2570.8	2439.8	2313.4	2290.4
25°	4531.5	4324.6	3953.4	3529.3	3138.6	2806.4	2493.8	2162.9	1959.5	1858.3	1820.4
27.5°	4783.1	4517.7	4007.4	3466.1	3006.4	2558.2	2103.1	1742.2	1497.5	1411.3	1411.3
30°	5073.9	4761.3	4108.5	3428.2	2822.5	2210.0	1674.4	1287.1	1059.6	929.7	926.3
32.5°	5517.5	5052.1	4200.5	3346.6	2599.6	1830.7	1211.3	829.8	647.0	566.6	562.0
35°	6155.3	5606.0	4348.7	3265.0	2276.6	1363.0	768.8	475.8	368.9	322.9	320.6
37.5°	6769.0	6133.5	4668.2	3102.9	1818.1	856.2	426.4	274.7	225.3	219.5	217.2
40°	7201.1	6588.6	4893.5	2855.9	1291.7	453.9	247.1	198.8	195.4	193.1	191.9
42.5°	7672.3	6926.5	5053.2	2541.0	766.5	263.2	201.1	179.3	173.5	171.2	171.2
45°	8055.0	7251.7	5083.1	2090.5	386.1	217.2	183.9	163.2	156.3	160.9	162.0
47.5°	8407.8	7558.5	4982.0	1572.2	260.9	202.3	172.4	151.7	147.1	158.6	158.6
50°	8708.9	7818.3	4749.8	1173.4	244.8	190.8	160.9	140.2	139.1	149.4	150.6
52.5°	9008.9	8027.4	4384.3	886.1	232.1	178.1	149.4	129.9	126.4	133.3	134.5
55°	9246.8	8102.1	4113.1	659.7	223.0	166.6	139.1	119.5	111.5	110.3	112.6
57.5°	9377.8	8036.6	3847.7	485.0	212.6	156.3	128.7	105.7	93.1	93.1	93.1
60°	9380.1	7957.3	3563.8	383.8	201.1	144.8	117.2	90.8	78.1	75.8	75.8
62.5°	9354.8	7816.0	3151.2	333.3	188.5	135.6	102.3	77.0	67.8	64.4	64.4
65°	9243.3	7549.4	2651.3	285.0	173.5	128.7	87.3	69.0	60.9	56.3	56.3
67.5°	8896.3	7049.4	2041.0	248.2	159.7	113.8	79.3	62.1	54.0	49.4	48.3
70°	8259.6	6241.5	1346.9	211.5	146.0	101.1	72.4	56.3	48.3	43.7	42.5
72.5°	7191.9	5079.6	676.9	179.3	125.3	93.1	65.5	49.4	41.4	36.8	36.8
75°	5635.9	3525.9	368.9	142.5	98.8	81.6	57.5	41.4	35.6	32.2	32.2
77.5°	3455.8	1748.0	251.7	110.3	74.7	66.7	46.0	34.5	31.0	29.9	29.9
80°	1260.7	572.3	168.9	78.1	56.3	51.7	36.8	29.9	28.7	28.7	28.7
82.5°	455.1	290.8	113.8	52.9	35.6	39.1	29.9	25.3	24.1	25.3	26.4
85°	187.3	127.6	41.4	29.9	19.5	20.7	18.4	17.2	18.4	19.5	19.5
87.5°	28.7	25.3	14.9	14.9	11.5	10.3	8.0	9.2	11.5	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)